BRUHAT BANGALORE MAHANAGARA PALIKE, YELAHANKA ZONE

Executive Engineeer
Byatarayanapura Division
B.B.M.P., Bangalore - 92

49

DRAFT TENDER SCHEDULE

Issued to :

Original / Duplicate

Name of the Work : Estimate for Construction of Samudaya Bhavana at Hegdenagara (near Dry Waste Collection Centre) in Ward No. 06, Byatarayanapura Sub Division.

Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
1	524.40	Earth work in surface excavation in **Ordinary soil** for levelling and lowering the ground manually (other than foundation of buildings, culverts, road, drains and trenches of pipes lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m excavated surface levelled and neatly dressed earth to be levelled after breaking of clods and neatly dressedetc complete as per specifications and directions of engineer in charge of the work.	Cum	124.02	
2	688.57	Earth work excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in **hard soil** not exceeding 1.5m , in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m. etc complete as per specifications and directions of engineer in charge of the work.	Cum	223.66	
3	38.84	Providing and filling in foundation with granite/trap broken metal 100mm, and down size, with approved sand including had packing, ramming, watering, including cost of all materials and labour with all lead and lift, etc complete as per specifications and directions of engineer in charge of the work.	Cum	1743.70	
4	72.49	Providing and laying in position plain cement concrete of **mix M7.5 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing etc complete as per specifications and directions of engineer in charge of the work.	Cum	4211.38	
5	169.77	Providing and constructing granite / trap / basalt size stone masonry in **foundation with cement mortar 1:6**, stone hammered dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work.	Cum	3484.22	
6	81.28	Providing and constructing granite / trap / basalt size stone masonry in **basement** with **cement mortar 1:6**, edges of stone chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work.	Cum	4148.84	
7	688.57	Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour etc complete as per specifications and directions of engineer in charge of the work.	Cum	99.64	

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9	213.53	Providing and constructing burnt brick masonry with approved quality of modular bricks of standard size of **class designation 50 (table moulded) with cement mortar 1:6 for basement and superstructure** including cost of materials, labour charges, scaffolding, curing etc complete as per specifications and directions of engineer in charge of the work.	Cum	5789.72	
10	345.68	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. etc complete as per specifications and directions of engineer in charge of the work.	Cum	6345.16	
11	20.76	Providing and laying in position reinforced cement concrete ofmix M20 with OPC cement @ 24kgs, with 12 mm and down size graded granite metal coarse aggregates @ 0.5175 cum and fine aggregates @ 0.345 cum with superplastisiser @ 0.225lts,machine mixed, well compacted for plain chajja of 7.5 cms. average thickness, upto ground floor lever, including cost of all materials, labour, HOM of machinery, curing, etc complete as per specifications and directions of engineer in charge of the work.	Sqm	405.98	
12	434.17	Providing **mild steel reinforcement for R.C.C** work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery etc complete as per specifications and directions of engineer in charge of the work.	Qtl	7746.48	
13	753.33	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc, consisting of following application. (a) Applying and grouting a slurry coat of neat cement using 2.75kg/sqm conforming admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment, (b) laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junction of walls and slabs, (c) after two days of proper curing, applying a second coat of cement lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick jointless cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 3000x300mm square, (e) the whole	Sqm	779.10	
14	617.69	Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to **ceiling** including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work.	Sqm	163.24	
15	810.52	Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work. **(Inside wall)**	Sqm	199.28	

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				In Figures	In Words
16	1428.22	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work.	Sqm	19.08	
17	1121.64	KSRB 15.3.9: Providing 18mm thick cement plaster in single coat with cement mortar 1:6, to brick masonry including rounding off corners wherever required smooth rendering, providing and removing scaffolding, including cost of materials, labour, curing etc complete as per specifications and directions of engineer in charge of the work. **(Out side Wall)**	Sqm	165.36	
18	94.00	Providing and laying in position plain cement concrete of **mix M7.5 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing etc complete as per specifications and directions of engineer in charge of the work.	Cum	4211.38	
19	659.67	Providing and laying flooring using pre polishing water cut/gang saw 19 mm thick Granite slab over existing cement concrete bed in CM 1:4 average 20mm thick pointed with white cement / colour pigment etc., complete. **using grey granite** etc complete as per specifications and directions of engineer in charge of the work.	Sqm	2067.00	
20	601.69	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, **roofs**, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work.	Sqm	284.08	
21	21.12	Providing and removing centering, shuttering, strutting, propping etc., for **chajjas**, corbels etc., including edges including cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work.	Sqm	242.74	
22	576.67	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of **columns** for mass concrete including cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work.	Sqm	220.48	
23	64.00	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for **vertical surface** such as **walls at any thickness**, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour etc complete as per specifications and directions of engineer in charge of the work.	Sqm	266.06	
24	6.93	Supply and fixing pressed steel door frames size 125x65 mm manufacture from 1.25mm thick carbon steel or imported steel strips with mitred joints of 900 for door openings and sutters made out of seasoned honne wood, styles of 30mm, thick with lock rail of 160mm, width, top and side rails of 100mm, width width and bottom rails of 250 mm width and panel filling with 12mm thick particle board of exterior grade bonded with phenol formal dehide resin and the shutter shall be not proof, vermin proof, heat resistant guaranteed against shrinkage, warpage and such other defects for a period of 3 years, this shall be as per approved drawings, specification and direction including cost of conveyance, manufacturing, painting wit enamel paint 2 coats over primer coat, cost of labour for all items of work, machinery, equipment and all other incidental charges with all lead, lift, loading and unloading etc, complete the hollow portion of the frame to be filled with cement concrete1:2:4. etc complete as per specifications and directions of engineer in charge of the work.	Sqm	3710.00	

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25	43.20	Providing and fixing in position anodized aluminium windows and ventilators as per approved drawings with sliding shutters using double track window frame section of size 61.85x31.75mm. with 1.2mm thick bottom section weight 0.695 Kg/m, sides and top sections 1.3 mm. thick weight 0.659 kg/m; and shutter comprising top and bottom section of size 40mmx18mm, 1.25mm thick 0.417 kg/m, shutter outer side 40mmx18mm, 1.25mm, thick, weight 0.417 kg/m, shutter interlock section 40mmx26.7mm, 1.1mm thick, weight 0.469 kg/m the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc ; and providing and fixing 5.5mm, thick plain glass for shutters fitted with rubber beading aluminium section anodised 12 to 15 microns, including cutting to required length, joints mitred subdividing the frame tenonned and riveted in the assembled frame stiffened with end clops at corners angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be with necessary steel screws, raul plugs, or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar, aluminium sections retreated for removal of	Sqm	3726.96	
26	1.58	Providing & fixing factory made PVC Door frame of size 50x47 mm with a wall thickness of 5mm, made out of extruded 7mm rigid PVC foam sheet metered cut at corners & jointed 2No.s of 150mm long brackets of 15x15 mm M.S. Square tube of 19 gauge. The door frame to be fixed to the wall using M.S. Screws of 65/80mm size etc complete as per specifications and directions of engineer in charge of the work.	Sqm	545.90	
27	1.58	SOLID PANEL PVC DOOR SHUTTER Providing and fixing 30 mm thick factorily made rigid foam panelled door shutters made from M.S Tuvbe of 19 gauge thickeness size 19x19 mm tro styles and 15x15mm for top and bottom rails, coverted with heat moulded PVC channel of 5 mm thick sheet & 30 x 50mm wide to form styles & 5mm thick & 75mm wide PVC sheets for top rail, lock rail & bottom rail on either side & 5mm thick 20mm wide PVC sheet as gap insert for top rails & bottom rail panelling of 5 mm thick 20mm wide PVC sheet fittled in te M.S Frame sealed to the styless & rails with 5 x 30mm PVC sheet beading on ewither sides & joined together with solvent cement adhesive etc., complete as per manufactures specification & direction of Engineer - in charge fixed to frames with 3 nos, of 75mm Aluminium hinges etc complete as per specifications and directions of engineer in charge of the work.	Sqm	3343.24	
28	1085.70	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S.square rods, or combination of M.S. flats and square rods as per approved design, drawning including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery etc complete as per specifications and directions of engineer in charge of the work.	Kgs	95.40	
29	1428.22	Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foregin matter including preparing the surface even and sand paper smooth, cost of materials, labours, etc complete as per specifications and directions of engineer in charge of the work.	Sqm	59.36	
30	1121.64	Providing and finishing external walls in tow coats with water proof cement paint of approve brand and shade to give an even shade after thourghly brooming the surface to remove all dirt and losse powdered material, free from mortar dops and other foreign matter cost of materials, labours, etc complete as per specifications and directions of engineer in charge of the work. **with Primer**	Cum	78.44	

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31	3.60	Providing colour glazed tiles of size 10mm thick for flooring, treads of steps and landing, laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing using white cement with matching colour pigment, including cost of materials, labour, etc complete as per specifications and directions of engineer in charge of the work.	Sqm	882.98	
32	19.76	Providing skirting, dado, rises of steps with Colour glazed tiles 15x15cms 6mm thick on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface white should be measured and paid separately) using glazed tiles of approved make and size of materials, labour, etc complete as per specifications and directions of engineer in charge of the work.	Sqm	926.44	
33	80.00	Providing and fixing in wall surface 4 kg/sq.cm H.D.P.E. rain down water pipes 90 mm outer dia approved make and brand with necessary specials like shoes bends and offsets fixed with iron clamps, walls plugs, screws, including cost of materials, labour, etc complete as per specifications and directions of engineer in charge of the work.	m	447.32	
34	4	Providing and fixing white vitreous china clay, flat back wash basin of size 630x450mm with pair of 15mm C.P brass pillar taps with C.I./M.S. brackets, 32mm C.P. brass waste of standard pattern, painting of fitting and brackets ,cutting and making good the wall and floor wherever required, including cost of materials, labour etc complete as per specifications and directions of engineer in charge of the work.	Unit	3773.60	
35	2	Providing and fixing white vitreous china clay, water closet European type (Pedestal Type) with black solid plastic seat and lid, C. P. brass hinges, rubber buffers. 10 litre low level, P.V.C. flushing cistern (all are approved make) with fittings, C.I. / M.S. brackets, 40mm diameter flush bend with fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design, painting of fittings and brackets, cutting and making good the wall and floor wherever required, including cost of materials, labours etc complete as per specifications and directions of engineer in charge of the work.	Each	5148.42	
36	300.00	Providing and fixing to wall, ceiling and floor, low density poluethylene pipes kgs/sq.cm working pressure **32mm** outside diameter, compression type fittings, wall clips, making good the wall ceiling and floor cost of materials, labour charges HOM of equipments and testing exeluding cost of fittings,etc complete as per specifications and directions of engineer in charge of the work.	Rmtr	186.56	
37	150.00	Providing and fixing to wall, ceiling and floor galvanised / mild steel tube 32mm dia nominal bore with fittings (medium grade weight 3.23 kg/mtr) etc complete as per specifications and directions of engineer in charge of the work.	m	354.04	
38	7.00	Providing and fixing in position brass gate valve with C.I. wheel of approved quality (screwed end) 32mm nominal bore including cost of all materials, labour and HOM of equipments with all leads etc complete as per specifications and directions of engineer in charge of the work.	Each	997.46	
39	15.00	Providing and fixing unplasticised PVC connection pipe with brass union 15mm nominal bore 300 mm length of PVC connection including cost of all materials, labour and HOM of equipments etc complete as per specifications and directions of engineer in charge of the work.	Set	888.28	
40	40	Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments etc complete as per specifications and directions of engineer in charge of the work.	Each	192.44	
41	2000	Supppying water storage tanks made of virgin polymer (LLDPE) with two layers outer black of blue and inner white layer of approved quality and make, etc complete as per specifications and directions of engineer in charge of the work.	L	6.36	

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42	325.00	**Groove Cutting** : Supplying ... dia 2mm/2.5mm thick heavy gauage PVC Conduit Pipe with bends metal junction boxes adhesive paste etc., and bracing U or J hooks and cement plastering up to the surface of the brick level and run with 18 SWG GI fish wire run through out the conduit wherever necessary etc complete as per specifications and directions of engineer in charge of the work.**19/20 mm dia 2mm thick**	Mtrs	43.00	
42.1	175.00	25 mm dia 2mm thick		53.00	
43	8	Supplying and flush mounting teak wooden box with out front plank made of not less than 12mm thick wood after due groove cutting necessary masonry patch work complete. etc complete as per specifications and directions of engineer in charge of the work. **10"X7"X3" (300X228X76mm)**	Each	68.00	
43.1	8	8"X6"X3" (300X228X76mm)	Each	52.00	
44	35	Supplying and fixing PVC/metal conduit accessories special type Junction Box etc complete as per specifications and directions of engineer in charge of the work. **KPWD SR 2010-11 32 mm Junction Box**	Each	29.00	
44.1	50	Deep 32 mm Junction Box	Each	33.00	
44.2	30	Fan Box 18 /SWG		57.00	
45	10.00	Point Wiring using copper wire with switch Supplying and wiring adopting loop system in existing PVC Conduit / casing caping using Copper PVC insulated multi strand 2x1.5 Sqmm copper wire with a 6 Amps flush type SP control switch shall be fixed on the existing plastic sheet gang box the other end of the wires shall be terminated with sufficient loose length in a wood PVC round block complete for each outlet etc complete as per specifications and directions of engineer in charge of the work. **Point Wiring using Class A Materials a) Short point upto 3Mtr from tapping point to out let via switch**	Each	175.00	
45.1	25.00	b) Medium point above 3mtr upto 6mtr from tapping point to out let via switch		260.00	
45.2	35.00	C) Long point above 6mtrs upto 10mtrs from tapping point to outlet via switch		368.00	
46	20	Supplying and fixing of modular switch / socket/Stepped electrical fan regulator / dimmer / telephone socket etc on existing modular switch plate 1-3 Way etc complete as per specifications and directions of engineer in charge of the work.	Each	90.00	
46.1	6	4-5Way		100.00	
46.2	15	6Way		175.00	
46.3	10	8 Way		195.00	
46.4	10	10-12Way		210.00	
47	20	Supplying and fixing superior quality modula switch mounting polyorbonate plate with cecessary supporting back plate with required nos. of machines screwes, bolts nuts etc., complete on the existing metal/PVC box etc complete as per specifications and directions of engineer in charge of the work. **1 to 3 Modular**	Each	82.00	
47.1	10	4 Modular		100.00	
47.2	15	6 Modular		125.00	
47.3	8	8 Modular		175.00	
47.4	10	12 Modular		230.00	
48	105	Supplying and fixing of modular switch / socket/Stepped electrical fan regulator / dimmer / telephone socket etc on existing modular switch plate etc complete as per specifications and directions of engineer in charge of the work. **6Amps one way.**	Each	96.00	
48.1	40	6Amps 3way Socket.		165.00	
48.2	15	Stepped Fan Regulator		530.00	
48.3	15	16 Amps one way switch		132.00	
48.4	3	6Amps Bell push		115.00	
48.5	15	6/16 Amps univesla Socket		205.00	
48.6	8	TV / Telephone Socket		115.00	
48.7	8	Rj45/IO Oulet		525.00	

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49	150	Wiring for lighting power curcuit using one of PVC insluated 1100v grade multistrand copper conductor single core cable in open or concealed system of wiring etc complete as per specifications and directions of engineer in charge of the work. **1.5 Sqmm**	Mtrs	150.00	
49.1	1900	2.5 Sqmm		25.00	
49.2	1900	4 Sqmm		32.00	
49.3	750	6 Sqmm		52.00	
50	25	Supplying an fixing one of 230 volts PBBC bakelite staight or slant batten holder and wiring with in 60w/230 Volts lamps etc complete as per specifications and directions of engineer in charge of the work.	No	60.00	
51	15	Extra for supplying 4mm thick white plastic plate and convering for juncrtion boxese or size 80mm conduit using necessary machine screws etc complete as per specifications and directions of engineer in charge of the work **8mm**	No	6.48	
52	5000	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches regulatoirs etc and fixing on existing wooden or metal box using NF screws etc complete as per specifications and directions of engineer in charge of the work	Sqcm	0.22	
53	30	Supply patty type fluorescent tube light fitting of 4' - 36/40 watts fluorescent tube fitting, made out of M.S. Sheet and stove enameled with low loss open construction copper wound ferromagnetic ballast, starter, locking, locking type brass contact holder mounted on double fold type sheet base fully wired for used on 230 Volts A C Supply including fluouresecent tube etc complete as per specifications and directions of engineer in charge of the work **Group 'A'**	Each	675.00	
54	15	Supplying of Incandescent lamps etc complete as per specifications and directions of engineer in charge of the work**B.C. 100Watts**		14.00	
55	15	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system KPWD SR 2007-08 (P-23, I-23) Regulator Model (Khaitan, Crompton Geaves, Orient, Polar, Bajaj, Usha, Havells, Almonard etc complete as per specifications and directions of engineer in charge of the work **Regular Model**	Each	1800.00	
56	8	Supplying wall mounting fan suitable to operat etc complete as per specifications and directions of engineer in charge of the work	Each	2400.00	
57	8.00	Supplying and fixing superior quality modula switch mounting polyorbonate plate with ncecessary supporting back plate with required nos. of machines screwes, bolts nuts etc., complete on the existing metal/PVC box etc complete as per specifications and directions of engineer in charge of the work **1 to 3 Modular**	Each	82.00	
57.1	16	8 Modular		175.00	
58	8	Supplying and fixing of modular switch / socket/Stepped electrical fan regulator / dimmer / telephone socket etc on existing modular switch plate etc complete as per specifications and directions of engineer in charge of the work 6Amps one way.	Each	96.00	
58.1	6	6Amps 3way Socket.		165.00	
59	3	Supplying and fixing 32Amps security and energy savings DP switch with key tag suitable to operate on 230 Volts 50Hz AC supply & completely wired on existing box etc complete as per specifications and directions of engineer in charge of the work **Group A**	Each	630.00	
60	3	Supplying an fixing one of 230 volts PBBC bakelite staight or slant batten holder and wiring with in 60w/230 Volts lamps etc complete as per specifications and directions of engineer in charge of the work.	No	60.00	

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61	3	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and wiring complete as required **5-32 Amps SP** etc complete as per specifications and directions of engineer in charge of the work	Each	560.00	
62	3	Supply and fixing polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc etc complete as per specifications and directions of engineer in charge of the work **20"x20"x2.5"**	Nos	285.00	
63	2	Supplying and fixing of porcelain fuse channel with cut out on existing wooden /panel using necessary nuts, bolts and washers etc complete as per specifications and directions of engineer in charge of the work **32 Amps**	Nos	100.00	
64	80.00	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class **4(d) 4 core 16 Sqmm** etc complete as per specifications and directions of engineer in charge of the work	Mtr	215.00	
65	80.00	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, **In existing trencg/duct 6Sqmm to 16 Sqmm)** etc complete as per specifications and directions of engineer in charge of the work	Mtr	11.00	
66	50.00	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete etc complete as per specifications and directions of engineer in charge of the work **For Cutting Road Surface**	Mtr	40.00	
66.1	20.00			60.00	
67	10.00	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class etc complete as per specifications and directions of engineer in charge of the work **40mm dia GI pipe**	Mtr	240.00	
68	1	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc complete as per specifications and directions of engineer in charge of the work **16Sqmm**	No.	286.00	
69	2	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, etc complete as per specifications and directions of engineer in charge of the work	No	3000.00	
70	230	Supplying and drawing UTP-CAT -E LAN calve (49/31)	Nos	35.00	
71	1	1HP Submercible centrifugal force pump of approved make with all necessary fittings including wiring switch board, starter etc., and Electronic Automatic Equipment (Programmable Logic Control) etc complete as per specifications and directions of engineer in charge of the work	LRQ	18000.00	

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				In Figures	In Words
72	1	Geophysical investigation of site for sinking Borewell for supplying drinking water to the habitation either through the Hand pump, MWS of P.W.S.S by vertical electrical sounding by adopting Venner or Schlumberger's method, including reconnaissance survey of geological formation, Gerophysical investigation of existing Ground Wate in the vicinity, its qualityf 1.0 meter in consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site., engaging techinical personal and labour required etc., as per Specification and direction etc complete as per specifications and directions of engineer in charge of the work	Each BW	1882.00	
73	50.00	Sinking borewell of 165 mm dia clear using super fast hydraulic rig of capacity 250 PSIG & above CFM & above in all strats including over burden upto 20 mts fixing of casing pipes, collars and cap with necessary cutting, throading and welding including transportation of rig and supporing vehicles, crew charges and cost of consumables etc., complete including yield testing at the final depth with a minimum working of compressor for one hour (excluding coat of casing pipes, collars, cap etc.,) etc complete as per specifications and directions of engineer in charge of the work	Rmtr	306.00	
		0 to 50 m			
73.1	50.00	50 to 100 m		400.00	
73.2	50.00	100 to 150 m		445.00	
73.3	50.00	150 to 200 m		470.00	
73.4	50.00	200 to 250 m		544.00	
73.5	50.00	250 to 300 m		583.00	
73.6	50.00	300 to 350 m		615.00	
74	80.00	Supply of ISI mark 175 mm nominal bore, Plain end steel casing pipe - grade of Steel Fee 410 of wall thickness 5.4mm thick confirming to IS 4270:2001 and latest amendments, electric resistance welded steel tube material and confirming to IS 1387/1993 and manufactured by baseic open hearth electric or basic oxygen process in random length of 5 to 7 mts both ends threaded confirming tio IS 554/1985, one end fixied with socket confirming to IS 4270:2001 and the other end with screwed pipes ISI Marking weighing 25.10Kg/mtr (Inclusive of all taxes and durties) Prices include Collar-medium duty etc complete as per specifications and directions of engineer in charge of the work	Rmtr	1325.00	
75	18.00	Providing 250mm dia PVC Pipe 6kg/cm etc complete as per specifications and directions of engineer in charge of the work	Rmtr	754.47	
76	1	Providing and fixing 160mm Borewell Cap etc complete as per specifications and directions of engineer in charge of the work	Each	100.00	
77	1	Supply and delivery at site brand New texmo/ innoval/ Lubi/ Sabar / Atalanta/ Calamal/ make suitable for vertical installation in 150mm dia bore well comprising of single stage or multistage CF pump close coupled by measns of stainless steel coupling to suitable HP suitable speed totally enclosed and filled with pure drinking water (Wet type) squirrel cage submersible induction motor suitable for opertation of 3PH., 50 Hz, 380/440 volts AC supply fitted with required aqccessories such as suction, casing suction strainers sand guard Non return value etc. complete . The pump and motor shall form an integral unit with all the required fittings 12.50 HP 20 stage. etc complete as per specifications and directions of engineer in charge of the work **Kirloskar Pumps including of all taxes 15 HP 30 Stage**	No	69999.25	

Executive Engineer
Byatarayanapura Division
Yelahanka Zone, B.B.M.P.
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Sl. No.	Quantity.	Description	Unit	Rates	
				In Figures	In Words
78	280.00	Supplying of ISI marked galvanized mild steel tube (continously welded electric resistance welded (ERW) high frequency, induction welded (HFIW) Hot finished welded type of nominal bore given below screwed at both ends as per IS 554/1986 with latest amendments, pipes threaftes at one end and the other end protected asper specification in random lengths of 4 to 7 mtrs Confirming to IS 1239 part I/1990 with amendament 1-5 and with all its latest amendements if any. The pipes supplied should be with BIS mark etc complete as per specifications and directions of engineer in charge of the work	Rmtr	375.00	
79	47	Heavy Duty Collar 50 mm dia	Nos	130.00	
80	580.00	Supplying and drawing 3 core flat PVC sheathed submersible pump cable manufactured with electrolytic grade copper with flexible copper conductor confirming to table 3 class 5 of IS:8130-1984 and virgin grade PVC insulation and sheathed suitable for working voltage upto 1100 Volts. P. No. 49/ I No. 29-b(1) **6 Sqm mm of 56 strands 0.3mm dia Group - A** etc complete as per specifications and directions of engineer in charge of the work	Mtr	185.00	
81	1	Erection of pumpset including aligning and balancing with all necessary erection materials and labour including supply and erection of one pair supporting clamps, one borewell cap. Cable clips with bolts, nuts, valves guages etc., involoved in the job (Necessary GI pipe and specials with be supplied by the board at the site free of cost) etc complete as per specifications and directions of engineer in charge of the work	No	3000.00	
82	1	Supplying and fixing 20"x20"x2.5" polished wood board made of not less than 15mm thick plank on both sides with planks made out of not more than 2 pieces and fixing the same to the wall using tapered inverted wooden plugs screws etc complete as per specifications and directions of engineer in charge of the work	Each	285.00	
83	50.00	Supplying of LTUG cable having aluminium condutor PVC insulated shethed, galvnised steel, wire / steel tap armoured cable with PVC outer sheathing 1.1 KV class.**4 core 16 Sqmm** etc complete as per specifications and directions of engineer in charge of the work	Mtr	150.00	
84	50.00	Labour charges for laying of 1.1 K.V class UG cable (PWD Electrical SR-1999-2000, **In existing trencg/duct 6Sqmm to 16 Sqmm)** etc complete as per specifications and directions of engineer in charge of the work	Mtr	8.00	
85	45.00	Digging or trenching of 0.6m deep x 0.5 mtr wide refilling the trench to the required ground level and consolidating etc., complete (as per Civil SR KSRB **1-2 P-7**) etc complete as per specifications and directions of engineer in charge of the work **For Cutting Road Surface**	Mtr	60.00	
86	4.00	Supplying and fixing of Class A (meaium duty) GI pipe of wall thickness not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class etc complete as per specifications and directions of engineer in charge of the work **40mm dia GI pipe**	Mtr	240.00	
87	1	Supplying and fixing L.T. cast Iron pot head suitable for 1.1 KV class UG cable filled with necessary bituumen/insulating compound complete with terminals, clamps, bolts, nuts and washers etc complete as per specifications and directions of engineer in charge of the work **16Sqmm**	No.	260.00	

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Sl. No	Quantity.	Description	Unit	Rates	
				In Figures	In Words
88	1	Supplying, fixing, wiring, earth electrode for grounding conduits, I.C cutouts and other equipments on the meter board using 40 mm dia 2.90 mm thick GI pipe 2.5 m long buried in a pit. The pit should be filled with equal propotion of solt and charocoal 150 mm alround the pipe to complete depth. The connection from the pipe to the conduit etc., is to be established through GI wire of size, as per ISI specification 7.3.3 IS 732 using 12 mm dia bolts, nuts, washers and check nuts, etc., the pipe shall have 16 throught holes of 122 mm dia, etc complete as per specifications and directions of engineer in charge of the work	No	1950.00	
89	6	Supplying and fixing of Porcelain fuse channel with cut out on existing wooden / panel using necessary nuts, bolts and washer etc complete as per specifications and directions of engineer in charge of the work	No.	100.00	
90	1	Providing and fixing in position 50mm nominal bore gun metal non-return valve horizontal type of approved make including cost of all materials, labour and HOM of equipments etc complete as per specifications and directions of engineer in charge of the work	Nos	1114.06	
91	1	Providing NP/CP waste unions conforming to ISI specifications and fixing them in position as per directions including cost of materials, fixtures and conveyance to work spot etc complete as per specifications and directions of engineer in charge of the work **50mm dia**	No	201.40	
92	4	Supplying and fixing 50mm dia GI X nipple with ISI mark with all lead and lift loading unloading and labour charges etc complete as per specifications and directions of engineer in charge of the work	No	80.00	
93	1	Supplying shunt capaitors conforming to IS 2834, 3phase 400/440 volts grade for power factor improvement of rotating machinery, Capacitor in KVAR rating Nos. 2KVAR capacity with all lead and lift =, loading, unloading and labour charges etc complete as per specifications and directions of engineer in charge of the work	No	350.00	
94	1	Supplying and fixing miniature circuit breakers/solaters on existing MCB distribution boards using necessary fixing materiasl wiring complete as requireds 5 to 30 amps triple pole with all lead and lift, loading, unloading and labour charges etc complete as per specifications and directions of engineer in charge of the work	No	1000.00	
95	23400	Fabrication supplying and mounting MS box of 16 SWG suitable for floor /wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished 2 coats of red oxide primer paint and finally finished with approved colour enamelled metal paint etc., complete box of 21600 sqcm @ Rs.0.33 etc complete as per specifications and directions of engineer in charge of the work	Sq.Cm	0.33	
96	1	Supplying and delivery at site brand new star / Essen/ Lotus/Sun-shines/Adarsh/ GK Controls best indigenous make combined energy meter - cum- control panel board unit of size 600x450 x200 mm minimum mechanically strong vermin and water proof. The unit shall have two detachable doors suitable for operation on 3 ph, 50Hz, 380/440 volts, A.C supply with spring loaded latch, locking device with a key ribs should be provided inside the door, canopy apron and louvers ventilators shall be provided. the combined energy meter cum- control panel board unit suitable for operation. The panel board shall be fabricated on single unit in the above components for suitable pumpset. **12.5HP to 15 HP Star Delta Starter** etc complete as per specifications and directions of engineer in charge of the work	No.	11000.00	

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Sl. No	Quantity.	Description	Unit	Rates	
				In Figures	In Words
97	90.00	Earthwork excavation for pipeline trenches including deporiting or bank up to a lead of 50 mtrs including shiriry and statting danger lighting and using site rails and boming poles at every 100 mtrs wherever necessary as directed in th following strructure manhole etc complete as per specifications and directions of engineer in charge of the work	Cum	188.00	
98	200.00	Providing and instalation at site of works P.V.C.Pipes including cost of pipes and specials and incluidng lowring into trenches, laying true to line, level and perfect linking at joints, leak proof including jointing encasing the pipe alround to a depth Not less than 15cm with grave or selected earth avalabile from the execavation etc complete as per specifications and directions of engineer in charge of the work	Rmtr	157.00	
99	90.00	Refilling the basement and pipeline treanches with secleted available earthe for trench excavation including authority condition in layers from thedi including disponsary of the sunplus earth with a heavy 200 mtrs etc complete as per specifications and directions of engineer in charge of the work	Cum	61.00	
100	6	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) **50mm** nominal bore including cost of all materials, labour and HOM of equipments with all leads etc complete as per specifications and directions of engineer in charge of the work	Each	1582.58	

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Signture of the Contractor

Executive Engineer
Byatarayanapura Division
BBMP, Bangalore - 92

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ತಿದ್ದುಪಡಿಗಳ ಸಂಖ್ಯೆ.....Nil
ತಿದ್ದುಪಡಿ ಮಾಡಿ/ಇಲ್ಲದೆ
ಅನುಮೋದನೆ ನೀಡಿಲಾಗಿದೆ

Chief Engineer
Yelahanka Zone